

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 08/444,791B  
Source: IFW/6  
Date Processed by STIC: 10/17/05

***ENTERED***



IFW16

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/08/444,791B

DATE: 10/17/2005  
TIME: 12:31:09

Input Set : A:\40451c.txt  
Output Set: N:\CRF4\10172005\H444791B.raw

3 <110> APPLICANT: Brockhaus, et al.  
 5 <120> TITLE OF INVENTION: Human TNF Receptor  
 7 <130> FILE REFERENCE: 01017/40451C  
 9 <140> CURRENT APPLICATION NUMBER: US 08/444,791B  
 10 <141> CURRENT FILING DATE: 1995-05-19  
 12 <150> PRIOR APPLICATION NUMBER: US 08/095,640  
 13 <151> PRIOR FILING DATE: 1993-07-21  
 15 <150> PRIOR APPLICATION NUMBER: US 07/580,013  
 16 <151> PRIOR FILING DATE: 1990-09-10  
 18 <150> PRIOR APPLICATION NUMBER: CH 1347/90  
 19 <151> PRIOR FILING DATE: 1990-04-20  
 21 <150> PRIOR APPLICATION NUMBER: CH 746/90  
 22 <151> PRIOR FILING DATE: 1990-03-08  
 24 <150> PRIOR APPLICATION NUMBER: CH 3319/89  
 25 <151> PRIOR FILING DATE: 1989-09-12  
 27 <160> NUMBER OF SEQ ID NOS: 26  
 29 <170> SOFTWARE: PatentIn version 3.3  
 31 <210> SEQ ID NO: 1  
 32 <211> LENGTH: 2111  
 33 <212> TYPE: DNA  
 34 <213> ORGANISM: Homo sapiens  
 36 <400> SEQUENCE: 1  
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 39 ccctcaactg tcaccccaag gcacttggga cgtccctggac agaccgagtc ccgggaagcc 120  
 41 ccagcaactgc cgctgcacaca ctgcccctgag cccaaatggg ggagttagagag gccatagctg 180  
 43 tctggcatgg gcctctccac cgtgcctgac ctgctgtgc cgctgggtgt cctggagctg 240  
 45 ttggtggaa tataccctc aggggttatt ggactggtcc ctcacctagg ggacagggag 300  
 47 aagagagata gtgtgtgtcc ccaaggaaaa tatattccacc ctcaaaataa ttcatgttgc 360  
 49 tgtaccaagt gccacaaaagg aacctacttg tacaatgact gtccaggccc gggcaggat 420  
 51 acggactgca gggaggtgtga gagcggctcc ttccacgcgtt cagaaaacca ctcagacac 480  
 53 tgcctcagct gctccaaatg ccgaaaaggaa atgggtcagg tggagatctc ttctgcaca 540  
 55 gtggaccggg acaccgtgtg tgctgcagg aagaaccagt accggcatta ttggagtgaa 600  
 57 aacctttcc agtgctcaa ttgcagcctc tgcctcaatg gacccgtgca cctctcctgc 660  
 59 caggagaaac agaacaccgt gtgcacctgc catgcagggt tctttctaag agaaaacgag 720  
 61 tgtgtctcct gtagtaactg taagaaaagg ctggagtgc cgaagttgtg cttacccctag 780  
 63 attgagaatg ttaagggcac tgaggactca ggcaccacag tgctgttgc cctggtcatt 840  
 65 ttctttggtc tttgcctttt atccctcctc ttcatgtttaatgtatcg ctaccaacgg 900  
 67 tggaaagtcca agctctactc cattgtttgt gggaaatcga cacctgaaaa agagggggag 960  
 69 cttaaggaa ctactactaa gcccctggcc ccaaacccaa gttcagttcc cactccaggc 1020  
 71 ttaccccca ccctggctt cagtcctgtg cccaggatcca cttcacctc cagtcacc 1080  
 73 tatacccccgtg gtgactgtcc caactttgcg gttcccccga gagaggtggc accaccctat 1140  
 75 cagggggctg accccatctc tgcgacagcc cttgcctccg accccatccc caacccctt 1200  
 77 cagaagtggg aggacagcgc ccacaagcca cagaggctag acactgtatga ccccgcgacg 1260

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79	ctgtacgccg	tggtggagaa	cgtcccccg	ttgcgctgga	aggaattcgt	gcggcgccctaa	1320									
81	gggctgagcg	accacgagat	cgatcggtcg	gagctgcaga	acggggcgctg	cctgcgcgag	1380									
83	gcgcaataca	gcatgtggc	gacctggagg	cggcgacacgc	cgcggcgcgaa	ggccacgctg	1440									
85	gagctgctgg	gacgcgtgct	ccgcgcacatg	gaccctgtgg	gctgcctgaa	ggacatcgag	1500									
87	gaggcgctt	gccccccgc	cgcgcacatg	ccgcgcacatg	gtcttctcgat	atgaggctgc	1560									
89	gccccctgcgg	gcagctctaa	ggaccgtcct	gcaatcgatc	cttccaaaccc	cacttttc	1620									
91	tggaaaggag	gggtcctgca	ggggcaagca	ggagctagca	gccgcctact	tgggtctaaac	1680									
93	ccctcgatgt	acatagctt	tctcagctgc	ctgcgcgcg	ccgacagtca	gcgcgtgtcg	1740									
95	cgcggagaga	ggtgcgcgt	gggctcaaga	gcctgagtgg	gtgggttgcg	aggatgaggg	1800									
97	acgctatgcc	tcatgcccgt	tttgggtgtc	ctcaccagca	aggctgcctcg	ggggccccctg	1860									
99	gttcgtccct	gagcctttt	cacagtgcat	aagcagttt	ttttgtttt	gtttgtttt	1920									
101	gttttgtttt	taaatcaatc	atgttacact	aatagaaact	tggcactcct	gtgccctctg	1980									
103	cctggacaag	cacatagcaa	gctgaactgt	cctaaggcag	gggcgagcac	ggaacaatgg	2040									
105	ggccttcagc	tggagctgtg	gactttgtta	catacactaa	aattctgaag	ttaaaaaaaaaa	2100									
107	aaccgcattt	c					2111									
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111	<211> LENGTH: 455															
112	<212> TYPE: PRT															
113	<213> ORGANISM: Homo sapiens															
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118	1						5			10				15		
121	Glu	Leu	Leu	Val	Gly	Ile	Tyr	Pro	Ser	Gly	Val	Ile	Gly	Leu	Val	Pro
122							20			25				30		
125	His	Leu	Gly	Asp	Arg	Glu	Lys	Arg	Asp	Ser	Val	Cys	Pro	Gln	Gly	Lys
126							35			40				45		
129	Tyr	Ile	His	Pro	Gln	Asn	Asn	Ser	Ile	Cys	Cys	Thr	Lys	Cys	His	Lys
130							50			55				60		
133	Gly	Thr	Tyr	Leu	Tyr	Asn	Asp	Cys	Pro	Gly	Pro	Gly	Gln	Asp	Thr	Asp
134							65			70				75		80
137	Cys	Arg	Glu	Cys	Glu	Ser	Gly	Ser	Phe	Thr	Ala	Ser	Glu	Asn	His	Leu
138							85			90				95		
141	Arg	His	Cys	Leu	Ser	Cys	Ser	Lys	Cys	Arg	Lys	Glu	Met	Gly	Gln	Val
142							100			105				110		
145	Glu	Ile	Ser	Ser	Cys	Thr	Val	Asp	Arg	Asp	Thr	Val	Cys	Gly	Cys	Arg
146							115			120				125		
149	Lys	Asn	Gln	Tyr	Arg	His	Tyr	Trp	Ser	Glu	Asn	Leu	Phe	Gln	Cys	Phe
150							130			135				140		
153	Asn	Cys	Ser	Leu	Cys	Leu	Asn	Gly	Thr	Val	His	Leu	Ser	Cys	Gln	Glu
154							145			150				155		160
157	Lys	Gln	Asn	Thr	Val	Cys	Thr	Cys	His	Ala	Gly	Phe	Phe	Leu	Arg	Glu
158							165			170				175		
161	Asn	Glu	Cys	Val	Ser	Cys	Ser	Asn	Cys	Lys	Lys	Ser	Leu	Glu	Cys	Thr
162							180			185				190		
165	Lys	Leu	Cys	Leu	Pro	Gln	Ile	Glu	Asn	Val	Lys	Gly	Thr	Glu	Asp	Ser
166							195			200				205		
169	Gly	Thr	Thr	Val	Leu	Leu	Pro	Leu	Val	Ile	Phe	Phe	Gly	Leu	Cys	Leu
170							210			215				220		
173	Leu	Ser	Leu	Leu	Phe	Ile	Gly	Leu	Met	Tyr	Arg	Gln	Arg	Trp	Lys	

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174	225	230	235	240
177	Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys	Ser Thr Pro Glu Lys Glu		
178	245	250	255	
181	Gly Glu Leu Glu Gly Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser			
182	260	265	270	
185	Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe Ser Pro Val			
186	275	280	285	
189	Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr Pro Gly Asp Cys			
190	290	295	300	
193	Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly			
194	305	310	315	320
197	Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn			
198	325	330	335	
201	Pro Leu Gln Lys Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp			
202	340	345	350	
205	Thr Asp Asp Pro Ala Thr Leu Tyr Ala Val Val Glu Asn Val Pro Pro			
206	355	360	365	
209	Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu Ser Asp His Glu			
210	370	375	380	
213	Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln			
214	385	390	395	400
217	Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala			
218	405	410	415	
221	Thr Leu Glu Leu Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly			
222	420	425	430	
225	Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro			
226	435	440	445	
229	Pro Ala Pro Ser Leu Leu Arg			
230	450	455		
233	<210> SEQ ID NO: 3			
234	<211> LENGTH: 2339			
235	<212> TYPE: DNA			
236	<213> ORGANISM: Homo sapiens			
238	<400> SEQUENCE: 3			
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241	cccgagtgtctg tgagctgtgg ctcccgctgt agctctgacc aggtggaaac tcaagcctgc			120
243	actcggaaac agaacccgcat ctgcacccgtc aggccccgtt ggtactgcgc gctgagcaag			180
245	caggaggggt gccggctgtc cgccggctc ccgaagtgc gccccggctt cggcgtggcc			240
247	agaccaggaa ctgaaacatc agacgtgggt tgcaagccct gtgcggccgg gacgttctcc			300
249	aacacgactt catccacccggtt tatttgcagg ccccacccaga tctgttaacgt ggtggccatc			360
251	cctggaaatg caagcaggaa tgcagtctgc acgttccacgt ccccccacccg gatgtatggcc			420
253	ccaggggcag tacacttacc ccagccatgt tccacacatc cccaaacacac gcagccaagt			480
255	ccagaaccca gcactgctcc aagcacctcc ttccgtctcc caatggggcc cagccccccca			540
257	gctgaaggaa gcactggcgtt ccagggtggac tgattgtggg tgtgacagcc			600
259	ttgggtctac taataatagg agtggtaac tgtgtcatca tgacccaggt gaaaaagaag			660
261	cccttgcgtcc tgcagagaga agccaagggtt cctcaacttgc ctggcataaa ggccgggggt			720
263	acacagggcc ccgagcagca gcacccgtc atcacagcgc cgagctccag cagcagctcc			780
265	ctggagagct cggccagtgc gttggacaga agggcgccca ctggaaacca gccacaggca			840
267	ccaggcgtgg aggccagtgg ggccggggag gcccggccca gcaccggag ctcagcagat			900

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269	tcttcccctg	gtggccatgg	gacccaggc	aatgtcac	ctgcgtgaa	cgtctgt	960
271	agctctgacc	acagctcaca	gtgctctcc	caagccagc	ccacaatggg	agacacagat	1020
273	tccagcccc	cggagtc	cccc	gaaggacgag	caggtcccc	tctccaagga	1080
275	tttcggcac	agctggagac	gccagagacc	ctgctggga	gcaccgaaga	gaagccc	1140
277	ccccc	tggag	tgcctgatgc	tggatgaag	cccagttaac	caggccgg	1200
279	cgtagccaag	gtggctgagc	cctggcaga	tgaccctgc	aaggccc	gttccttcca	1260
281	ggcccccacc	actaggactc	tgaggctt	tctggccaa	gttcctctag	tgcctccac	1320
283	agccgcagcc	tccctctgac	ctgcaggcca	agacagagg	cagcgagg	tggaaagcct	1380
285	ctgctgccc	ggcgtgtccc	tctcggaagg	ctggctggc	atggacgtt	gggcacatgt	1440
287	ggggcaagtc	cctgagtctc	tgtgacctgc	cccggcc	tgcacactgc	agcctgg	1500
289	ctggagccct	tgggtttttt	gtttgtttt	ttgtttgtt	ttttgttct	ccccctggc	1560
291	tctgcccagc	tctggcttcc	agaaaacccc	agcatcctt	tctgcagagg	ggcttctgg	1620
293	agaggaggga	tgctgcctga	gtcaccatcg	aagacaggac	agtgc	cctgaggct	1680
295	agactgcggg	atggctctgg	ggctctgtc	agggaggagg	tggcagcc	gtagggaa	1740
297	gggtcctca	agtagctca	ggaggcttgg	aaagcatcac	ctcaggcc	gtcagtg	1800
299	tcacgcctat	gatcccagca	ctttgggagg	ctgaggcgg	tggatcac	gaggttagga	1860
301	gttcgagacc	agcctggcca	acatggtaaa	acccatctc	tactaaaaat	acagaaatta	1920
303	gcccggcgtg	gtgggggca	cctatagtc	cagctactca	gaagc	ctgag	1980
305	cgttgaacc	cgggaagcgg	agg	ttgcagg	gagcc	cacgttcc	2040
307	tggcgcacag	agcgagagtc	tgtctcaaaa	gaaaaaaaaa	aagcacc	ccctccaaat	2100
309	aacttgcct	tttgcatt	gtgtgaaag	tcagatgccc	agaggccc	ggcaggcc	2160
311	catattcagt	gtgtggcct	ggcagagata	acgcactt	aactagaat	ctgcaattt	2220
313	tttaaaaaaaag	taagtaccac	tcaggccaa	aagccaacga	caaagccaa	ctctgc	2280
315	cacatccaac	cccccac	cttgcac	cctccgc	cactccgg	tgcc	2339

318 <210> SEQ ID NO: 4

319 <211> LENGTH: 392

320 <212> TYPE: PRT

321 <213> ORGANISM: Homo sapiens

323 <400> SEQUENCE: 4

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326	1				5				10						15	
329	Trp	Asn	Trp	Val	Pro	Glu	Cys	Leu	Ser	Cys	Gly	Ser	Arg	Cys	Ser	Ser
330					20				25						30	
333	Asp	Gln	Val	Glu	Thr	Gln	Ala	Cys	Thr	Arg	Glu	Gln	Asn	Arg	Ile	Cys
334					35				40						45	
337	Thr	Cys	Arg	Pro	Gly	Trp	Tyr	Cys	Ala	Leu	Ser	Lys	Gln	Glu	Gly	Cys
338					50				55						60	
341	Arg	Leu	Cys	Ala	Pro	Leu	Pro	Lys	Cys	Arg	Pro	Gly	Phe	Gly	Val	Ala
342					65				70						75	
345	Arg	Pro	Gly	Thr	Glu	Thr	Ser	Asp	Val	Val	Cys	Lys	Pro	Cys	Ala	Pro
346									85						90	
349	Gly	Thr	Phe	Ser	Asn	Thr	Thr	Ser	Ser	Thr	Asp	Ile	Cys	Arg	Pro	His
350									100						105	
353	Gln	Ile	Cys	Asn	Val	Val	Ala	Ile	Pro	Gly	Asn	Ala	Ser	Arg	Asp	Ala
354									115						120	
357	Val	Cys	Thr	Ser	Thr	Ser	Pro	Thr	Arg	Ser	Met	Ala	Pro	Gly	Ala	Val
358									130						135	
361	His	Leu	Pro	Gln	Pro	Val	Ser	Thr	Arg	Ser	Gln	His	Thr	Gln	Pro	Ser
362									145						150	
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365 Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly  
 366 165 170 175  
 369 Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp Phe Ala Leu Pro Val  
 370 180 185 190  
 373 Gly Leu Ile Val Gly Val Thr Ala Leu Gly Leu Leu Ile Ile Gly Val  
 374 195 200 205  
 377 Val Asn Cys Val Ile Met Thr Gln Val Lys Lys Lys Pro Leu Cys Leu  
 378 210 215 220  
 381 Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala Arg Gly  
 382 225 230 235 240  
 385 Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro Ser Ser  
 386 245 250 255  
 389 Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg Arg Ala  
 390 260 265 270  
 393 Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser Gly Ala  
 394 275 280 285  
 397 Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser Ala Asp Ser Ser Pro Gly  
 398 290 295 300  
 401 Gly His Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys Ser  
 402 305 310 315 320  
 405 Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr Met  
 406 325 330 335  
 409 Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln Val  
 410 340 345 350  
 413 Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr Pro  
 414 355 360 365  
 417 Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly Val  
 418 370 375 380  
 421 Pro Asp Ala Gly Met Lys Pro Ser  
 422 385 390  
 425 <210> SEQ ID NO: 5  
 426 <211> LENGTH: 28  
 427 <212> TYPE: PRT  
 428 <213> ORGANISM: Artificial sequence  
 430 <220> FEATURE:  
 431 <223> OTHER INFORMATION: Synthetic peptide  
 434 <220> FEATURE:  
 435 <221> NAME/KEY: misc\_feature  
 436 <222> LOCATION: (25)..(25)  
 437 <223> OTHER INFORMATION: Xaa = unknown amino acid  
 439 <400> SEQUENCE: 5  
 441 Leu Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro  
 442 1 5 10 15  
 W--> 445 Gln Gly Lys Tyr Ile His Pro Glu Xaa Asn Ser Ile  
 446 20 25  
 448 <210> SEQ ID NO: 6  
 449 <211> LENGTH: 15  
 450 <212> TYPE: PRT  
 451 <213> ORGANISM: Artificial sequence

**RAW SEQUENCE LISTING ERROR SUMMARY**      DATE: 10/17/2005  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 25  
Seq#:10; Xaa Pos. 8  
Seq#:11; Xaa Pos. 2  
Seq#:14; Xaa Pos. 9,10,13

**VERIFICATION SUMMARY**

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L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16

L:524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0

L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0

L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0